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☐ 1. Document ID: US 5495613 A

L1: Entry 1 of 1

File: USPT

Feb 27, 1996

US-PAT-NO: 5495613

DOCUMENT-IDENTIFIER: US 5495613 A

TITLE: Method and apparatus for extending the capability of a system editor using high-level language transforms

DATE-ISSUED: February 27, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brody; Ronald E.	Exton	PA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Unisys Corporation	Blue Bell	PA			02

APPL-NO: 08/ 292613 [PALM]

DATE FILED: August 18, 1994

INT-CL: [06] G06 F 3/00

US-CL-ISSUED: 395/700; 364/280.7, 364/226.6, 364/DIG.1

US-CL-CURRENT: 717/110; 715/530, 717/114

FIELD-OF-SEARCH: 395/600, 395/700, 364/419

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4827410</u>	May 1989	Corren	395/155
<u>4908612</u>	March 1990	Bromley et al.	340/706
<u>5043891</u>	August 1991	Goldstein et al.	364/419

## OTHER PUBLICATIONS

Alan Simpson, "Mastering WordPerfect 5.1 & 5.2 for Windows" Sybex Inc., pp. 511-521, 874-906, 1993.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Wang; Peter Y.

ATTY-AGENT-FIRM: Ratner & Prestia

ABSTRACT:

The present invention is directed to a technique extending the commands, and consequently, the capability of a system editor. Rather than extending the editor with existing editor commands, as in the use of macros, the present invention enables the user to extend the editor using new commands, called transforms. The transforms are written in a standard high level language such as ALGOL, C, COBOL, FORTRAN, or PASCAL. A transform is a new type of command that may be added to a system editor. The transform command is created, compiled, and then stored in a library. When the command is called, an interface in the system editor provides access to the transforms in the library. Transforms are designed so that, to the user, they operate like normal editor commands.

12 Claims, 20 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWIC	Draw D
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Terms	Documents
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☐ 1. Document ID: US 5721929 A

L2: Entry 1 of 1

File: USPT

Feb 24, 1998

US-PAT-NO: 5721929

DOCUMENT-IDENTIFIER: US 5721929 A

TITLE: Method for extending a fourth generation programming language

DATE-ISSUED: February 24, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pasquariello; Greg	Littleton	CO		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Electronic Data Systems Corporation	Plano	TX			02

APPL-NO: 08/ 539515 [PALM]

DATE FILED: October 6, 1995

INT-CL: [06] G06 F 9/44

US-CL-ISSUED: 395/710; 395/685

US-CL-CURRENT: 717/168; 717/175, 719/330

FIELD-OF-SEARCH: 395/701, 395/710, 395/685, 395/680

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5497491</u>	March 1996	Mitchell et al.	395/700
<u>5515536</u>	May 1996	Corbett et al.	395/700

## OTHER PUBLICATIONS

"Customizing C++ to Improve the Reusability of Class Libraries", Kojima et al. IEEE 1994, pp. 64-73.

"Class Modules in Object Oriented Software Development", Zhu, COMPSAC 1991, pp.

529-530.

"Object Exchange Service for an Object-Oriented Database System", Pathak et al., Data Engg., 1989 5th Int'l Conf., pp. 27-34.

"A Concurrent Programming Environment for Memory-Mapped Persistent Object Systems", Fu et al., 1993 Int'l Conf. on Comp. Software and Applications, pp. 291-297.

ART-UNIT: 236

PRIMARY-EXAMINER: Oberley; Alvin E.

ASSISTANT-EXAMINER: Chaki; Kakali

ATTY-AGENT-FIRM: Griebenow; L. Joy

## ABSTRACT:

A system for extending the capabilities of a programming language, particularly a 4GL, wherein an extension of the programming language is created as a class within the C++ programming language. The extension class must also include code to register the extension class with the programming language, so that the programming language execution engine can call the functions of the class. When the extension function receives control, it receives any parameters defined within the programming language statement that called the extension function, and it can return a value to the programming language. The extension function may call other functions of the programming language, and it may call any other types of functions, therefore, the extension function has complete control over its domain and scope.

11 Claims, 6 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence?	Attachments	Claims	KWIC	Draw. De
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